

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/767,809A
Source: 1FuJ6
Date Processed by STIC: 3/7/07

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IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/767,809A

DATE: 03/07/2007

TIME: 09:24:03

Input Set : A:\PC25496A US Sequence Listing.txt
 Output Set: N:\CRF4\03072007\J767809A.raw

3 <110> APPLICANT: Pfizer Inc.
 4 Dominowski, Paul J.
 5 Frantz, Joseph C.
 6 Krebs, Richard L.
 7 Shields, Shelly L.
 8 Sorensen, Robert G.
 10 <120> TITLE OF INVENTION: Canine Vaccines Against Bordetella Bronchiseptica
 12 <130> FILE REFERENCE: PC25496A
 14 <140> CURRENT APPLICATION NUMBER: 10/767809A
 15 <141> CURRENT FILING DATE: 2004-01-29
 17 <150> PRIOR APPLICATION NUMBER: 60/443,418
 18 <151> PRIOR FILING DATE: 2003-01-29
 20 <160> NUMBER OF SEQ ID NOS: 3
 22 <170> SOFTWARE: PatentIn version 3.3
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 602
 26 <212> TYPE: PRT
 27 <213> ORGANISM: Bordetella bronchiseptica
 29 <400> SEQUENCE: 1
 31 Asp Pro Asn Thr Val Ser Ile Ile Lys Ala Gly Glu Arg Gln His Gly
 32 1 5 10 15
 35 Ile His Ile Lys Gln Ser Asp Gly Ala Gly Val Arg Thr Ala Thr Gly
 36 20 25 30
 39 Thr Thr Ile Lys Val Ser Gly Arg Gln Ala Gln Gly Val Leu Leu Glu
 40 35 40 45
 43 Asn Pro Ala Ala Glu Leu Arg Phe Gln Asn Gly Ser Val Thr Ser Ser
 44 50 55 60
 47 Gly Gln Leu Phe Asp Glu Gly Val Arg Arg Phe Leu Gly Thr Val Thr
 48 65 70 75 80
 51 Val Lys Ala Gly Lys Leu Val Ala Asp His Ala Thr Leu Ala Asn Val
 52 85 90 95
 55 Ser Asp Thr Arg Asp Asp Gly Ile Ala Leu Tyr Val Ala Gly Glu
 56 100 105 110
 59 Gln Ala Gln Ala Ser Ile Ala Asp Ser Thr Leu Gln Gly Ala Gly Gly
 60 115 120 125
 63 Val Arg Val Glu Arg Gly Ala Asn Val Thr Val Gln Arg Ser Thr Ile
 64 130 135 140
 67 Val Asp Gly Gly Leu His Ile Gly Thr Leu Gln Pro Leu Gln Pro Glu
 68 145 150 155 160
 71 Asp Leu Pro Pro Ser Arg Val Val Leu Gly Asp Thr Ser Val Thr Ala
 72 165 170 175
 75 Val Pro Ala Ser Gly Ala Pro Ala Ala Val Ser Val Phe Gly Ala Asn
 76 180 185 190

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79 Glu Leu Thr Val Asp Gly Gly His Ile Thr Gly Gly Arg Ala Ala Gly
 80 195 200 205
 83 Val Ala Ala Met Asp Gly Ala Ile Val His Leu Gln Arg Ala Thr Ile
 84 210 215 220
 87 Arg Arg Gly Asp Ala Pro Ala Gly Gly Ala Val Pro Gly Gly Ala Val
 88 225 230 235 240
 91 Pro Gly Gly Phe Gly Pro Leu Leu Asp Gly Trp Tyr Gly Val Asp Val
 92 245 250 255
 95 Ser Asp Ser Thr Val Asp Leu Ala Gln Ser Ile Val Glu Ala Pro Gln
 96 260 265 270
 99 Leu Gly Ala Ala Ile Arg Ala Gly Arg Gly Ala Arg Val Thr Val Ser
 100 275 280 285
 103 Gly Gly Ser Leu Ser Ala Pro His Gly Asn Val Ile Glu Thr Gly Gly
 104 290 295 300
 107 Gly Ala Arg Arg Phe Pro Pro Pro Ala Ser Pro Leu Ser Ile Thr Leu
 108 305 310 315 320
 111 Arg Ala Gly Ala Arg Ala Gln Gly Arg Ala Leu Leu Tyr Arg Val Leu
 112 325 330 335
 115 Pro Glu Pro Val Lys Leu Thr Leu Ala Gly Gly Ala Gln Gly Gln Gly
 116 340 345 350
 119 Asp Ile Val Ala Thr Glu Leu Pro Pro Ile Pro Gly Ala Ser Ser Gly
 120 355 360 365
 123 Pro Leu Asp Val Ala Leu Ala Ser Gln Ala Arg Trp Thr Gly Ala Thr
 124 370 375 380
 127 Arg Ala Val Asp Ser Leu Ser Ile Asp Asn Ala Thr Trp Val Met Thr
 128 385 390 395 400
 131 Asp Asn Ser Asn Val Gly Ala Leu Arg Leu Ala Ser Asp Gly Ser Val
 132 405 410 415
 135 Asp Phe Gln Gln Pro Ala Glu Ala Gly Arg Phe Lys Val Leu Met Val
 136 420 425 430
 139 Asp Thr Leu Ala Gly Ser Gly Leu Phe Arg Met Asn Val Phe Ala Asp
 140 435 440 445
 143 Leu Gly Leu Ser Asp Lys Leu Val Val Met Arg Asp Ala Ser Gly Gln
 144 450 455 460
 147 His Arg Leu Trp Val Arg Asn Ser Gly Ser Glu Pro Ala Ser Ala Asn
 148 465 470 475 480
 151 Thr Met Leu Leu Val Gln Thr Pro Arg Gly Ser Ala Ala Thr Phe Thr
 152 485 490 495
 155 Leu Ala Asn Lys Asp Gly Lys Val Asp Ile Gly Thr Tyr Arg Tyr Arg
 156 500 505 510
 159 Leu Ala Ala Asn Gly Asn Gly Gln Trp Ser Leu Val Gly Ala Lys Ala
 160 515 520 525
 163 Pro Pro Ala Pro Lys Pro Ala Pro Gln Pro Gly Pro Gln Pro Gly Pro
 164 530 535 540
 167 Gln Pro Gly Pro Gln Pro Pro Gln Pro Pro Gln Pro Pro Gln Pro Pro
 168 545 550 555 560
 171 Gln Arg Gln Pro Glu Ala Pro Ala Pro Gln Pro Pro Ala Gly Arg Glu
 172 565 570 575
 175 Leu Ser Ala Ala Asn Ala Val Asn Thr Gly Gly Val Gly Leu

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176	580	585	590	
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180	595	600		
183 <210> SEQ ID NO: 2				
184 <211> LENGTH: 1806				
185 <212> TYPE: DNA				
186 <213> ORGANISM: Bordetella bronchiseptica				
188 <400> SEQUENCE: 2				
189 gatccaaaca ctgtgtcaat catcaaggcc ggcgagcgcc agcacggcat ccacatcaag	60			
191 caaagcgatg gcgcggcgt acggaccgcc accggaacga ccatcaaggt aagcggtcgt	120			
193 caggcccagg gcgtctgtc gaaaaatccc gggggcgagc tgccgttcca gaacggcagc	180			
195 gtcacgtctt cgggacagct gttcgacgaa ggcgtccggc gctttctggg caccgtcacc	240			
197 gtcaggccg gcaagcttgt cgccgatcac gccacgctgg ccaacgtcag cgacacccgg	300			
199 gacgacgacg gcatcgcgtc ctatgtggcc ggcgagcagg cccaggccag catcgccgac	360			
201 agcaccctgc agggcgcggg cggcggtcgg gtcgagcgcg gcgccaatgt cacggtccaa	420			
203 cgcagcacca tcgttgacgg gggcttgcatt atcggcaccc tgcagccgt gcagccggaa	480			
205 gaccttccgc ccagccgggt ggtgctggc gacaccagcg tgaccgcgt gcccggcagc	540			
207 ggcgcgcccg cggcggtgtc tgtattcggg gccaatgagc ttacgggtta tggcgccgac	600			
209 atcaccgggg ggcgggcagc ggggggtggcg gccatggacg gggcgatcgt gcatctgcag	660			
211 cgcgcgacga tacggcgggg ggacgcgcct gccggcggtg cggttccagg cggtgcggtt	720			
213 cccggcggtc tcggccccct ctttgcgcg tggtatggcg tggatgtatc ggactccacc	780			
215 gtggacctcg ctcaagtgcgt cgtcgaggcg ccgcagctgg ggcgcgcgt ccggcgccggc	840			
217 cgcggcgcca ggggtgacggt gtcgggcggc agcttgcgg caccgcacgg caatgtcatc	900			
219 gagaccggcg gcggtgcgcg tcgttcccg cttccggcct cgccccctgtc gatcaccttg	960			
221 cggggcgccgca cacggggcgca ggggagggcg ctgctgtacc gggtcctgca ggagcccggt	1020			
223 aagctgacgc tggcgccgg cgccccagggg cagggcgaca tcgtcgac ggagctgcct	1080			
225 cccattcccg ggcgcgtcgag cggggccgtc gacgtggcgc tggccagcca ggcccgtatgg	1140			
227 acgggcgcta cccgcgcgtt cgactcgctg tccatcgaca acgcccacctg ggtcatgacg	1200			
229 gacaactcga acgtcgccgc gctgcggctg gccagcgacg gcagcgctga ttccagcag	1260			
231 cccggccgaag ctggcggtt caagggtcctg atggcgata cgctggcggt ttggggctg	1320			
233 ttccgcgtt atgttccgc ggacctgggg ctgagcgaca agctggtcgt catcgccggac	1380			
235 gccagcgccg accacaggct gtgggtccgc aacagcgca gcgagccggc cagcgccaaac	1440			
237 accatgtgc tggtgccagac gccacgaggc agcgccgcga ctttaccc tggcaacaag	1500			
239 gacggcaagg tcgatatacgg tacctaccgc tatogattgg cgcacaacgg caatgggcag	1560			
241 tggagcctgg tggcgccgaa ggcgcccggc ggcggcaac cgcgcggca gcccgggtccc	1620			
243 cagcccggtc cccagcccg tccccagccg ccgcagccgc cgcagccgca gcagccgcca	1680			
245 cagaggcagc cggaaagcgcc ggcgcccggaa ccgcggccgg gcagggagtt gtccggccggc	1740			
247 gccaacgcgg cggtaaacac gggtggttggc ggcctggcca gcacgtctg gtacgcccggaa	1800			
249 agcaat	1806			
252 <210> SEQ ID NO: 3				
253 <211> LENGTH: 599				
254 <212> TYPE: PRT				
255 <213> ORGANISM: Bordetella bronchiseptica				
257 <400> SEQUENCE: 3				
259 Asp Trp Asn Asn Gln Ser Ile Ile Lys Ala Gly Glu Arg Gln His Gly				
260 1 5 10 15				
263 Ile His Ile Lys Gln Ser Asp Gly Ala Gly Val Arg Thr Ala Thr Gly				
264 20 25 30				
267 Thr Thr Ile Lys Val Ser Gly Arg Gln Ala Gln Gly Val Leu Leu Glu				

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268	35	40	45	
271	Asn Pro Ala Ala Glu Leu Arg Phe Gln Asn Gly Ser Val Thr Ser Ser			
272	50	55	60	
275	Gly Gln Leu Phe Asp Glu Gly Val Arg Arg Phe Leu Gly Thr Val Thr			
276	65	70	75	80
279	Val Lys Ala Gly Lys Leu Val Ala Asp His Ala Thr Leu Ala Asn Val			
280	85	90	95	
283	Ser Asp Thr Arg Asp Asp Gly Ile Ala Leu Tyr Val Ala Gly Glu			
284	100	105	110	
287	Gln Ala Gln Ala Ser Ile Ala Asp Ser Thr Leu Gln Gly Ala Gly Gly			
288	115	120	125	
291	Val Arg Val Glu Arg Gly Ala Asn Val Thr Val Gln Arg Ser Thr Ile			
292	130	135	140	
295	Val Asp Gly Gly Leu His Ile Gly Thr Leu Gln Pro Leu Gln Pro Glu			
296	145	150	155	160
299	Asp Leu Pro Pro Ser Arg Val Val Leu Gly Asp Thr Ser Val Thr Ala			
300	165	170	175	
303	Val Pro Ala Ser Gly Ala Pro Ala Ala Val Ser Val Phe Gly Ala Asn			
304	180	185	190	
307	Glu Leu Thr Val Asp Gly Gly His Ile Thr Gly Gly Arg Ala Ala Gly			
308	195	200	205	
311	Val Ala Ala Met Asp Gly Ala Ile Val His Leu Gln Arg Ala Thr Ile			
312	210	215	220	
315	Arg Arg Gly Asp Ala Pro Ala Gly Gly Ala Val Pro Gly Gly Ala Val			
316	225	230	235	240
319	Pro Gly Gly Phe Gly Pro Leu Leu Asp Gly Trp Tyr Gly Val Asp Val			
320	245	250	255	
323	Ser Asp Ser Thr Val Asp Leu Ala Gln Ser Ile Val Glu Ala Pro Gln			
324	260	265	270	
327	Leu Gly Ala Ala Ile Arg Ala Gly Arg Gly Ala Arg Val Thr Val Ser			
328	275	280	285	
331	Gly Gly Ser Leu Ser Ala Pro His Gly Asn Val Ile Glu Thr Gly Gly			
332	290	295	300	
335	Gly Ala Arg Arg Phe Pro Pro Pro Ala Ser Pro Leu Ser Ile Thr Leu			
336	305	310	315	320
339	Gln Ala Gly Ala Arg Ala Gln Gly Arg Ala Leu Leu Tyr Arg Val Leu			
340	325	330	335	
343	Pro Glu Pro Val Lys Leu Thr Leu Ala Gly Gly Ala Gln Gly Gln Gly			
344	340	345	350	
347	Asp Ile Val Ala Thr Glu Leu Pro Pro Ile Pro Gly Ala Ser Ser Gly			
348	355	360	365	
351	Pro Leu Asp Val Ala Leu Ala Ser Gln Ala Arg Trp Thr Gly Ala Thr			
352	370	375	380	
355	Arg Ala Val Asp Ser Leu Ser Ile Asp Asn Ala Thr Trp Val Met Thr			
356	385	390	395	400
359	Asp Asn Ser Asn Val Gly Ala Leu Arg Leu Ala Ser Asp Gly Ser Val			
360	405	410	415	
363	Asp Phe Gln Gln Pro Ala Glu Ala Gly Arg Phe Lys Cys Leu Met Val			
364	420	425	430	

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367 Asp Thr Leu Ala Gly Ser Gly Leu Phe Arg Met Asn Val Ala Phe Ala
368 435 440 445
371 Asp Leu Gly Leu Ser Asp Lys Leu Val Val Met Arg Asp Ala Ser Gly
372 450 455 460
375 Gln His Arg Leu Leu Val Arg Asn Ser Gly Ser Glu Pro Ala Ser Gly
376 465 470 475 480
379 Asn Thr Met Leu Leu Val Gln Thr Pro Arg Gly Ser Ala Ala Thr Phe
380 485 490 495
383 Thr Leu Ala Asn Lys Asp Gly Lys Val Asp Ile Gly Thr Tyr Arg Tyr
384 500 505 510
387 Arg Leu Ala Ala Asn Gly Asn Gly Gln Trp Ser Leu Val Gly Ala Lys
388 515 520 525
391 Ala Pro Pro Ala Pro Lys Pro Ala Pro Gln Pro Gly Pro Gln Pro Gly
392 530 535 540
395 Pro Gln Pro Pro Gln Pro Pro Gln Pro Pro Gln Pro Pro Gln Arg Gln
396 545 550 555 560
399 Pro Glu Ala Pro Ala Pro Gln Pro Pro Ala Gly Arg Glu Leu Ser Ala
400 565 570 575
403 Ala Ala Asn Ala Ala Val Asn Thr Gly Gly Val Gly Leu Ala Ser Thr
404 580 585 590
407 Leu Trp Tyr Ala Glu Ser Asn
408 595

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/767,809A

DATE: 03/07/2007

TIME: 09:24:04

Input Set : A:\PC25496A US Sequence Listing.txt

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